



Odd answer key

$$57. x = \frac{5 \pm \sqrt{53}}{2}$$

1. $x^2 + 3x - 10$

3. $9x^2 - y^2$

5. $9x^2 + 24xy + 16y^2$

7. $u^3 + 9u^2v + 27uv^2 + 27v^3$

9. $u - v$

11. $x^3 - 8$

13. $5x^2(5x - 6)$

15. $(x + 8)(x - 1)$

17. *nonfactorable*

19. $(3x + 2)(5x - 4)$

21. $(2x - 5)(2x - 5)$ or $(2x - 5)^2$

23. $(x + 5)(x - 5)$

25. *nonfactorable*

27. $2(x + 4)(x - 4)$

29. $(3x - 1)(9x^2 + 3x + 1)$

31. $(5x + 3y)(25x^2 - 15xy + 9y^2)$

33. $(x^2 - 3)(5x + 2)$

35. $3(k - 10)(k + 2)$

37. $(3y + 4)(12x - 2k)$

39. *nonfactorable*

41. $10x(2x - 7y)$

43. $(11n + 2)(11n - 2)$

45. $(3m + n)^2$

47. $(1 - 5x^2)(1 + 5x^2 + 25x^4)$

49. $x = 10, -9$

51. $x = 0, 4$

53. $x = 5$

55. $x = \frac{2}{\sqrt{3}}$ or $\frac{2\sqrt{3}}{3}, -\frac{1}{2}$